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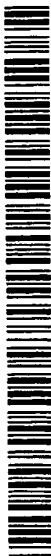


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(54) Title: MOLECULAR ANTIGEN ARRAYS AND VACCINES

(57) Abstract: The invention provides compositions and processes for the production of ordered and repetitive antigen or antigenic determinant arrays. The compositions of the invention are useful for the production of vaccines for the prevention of infectious diseases, the treatment of allergies and the treatment of cancers. Various embodiments of the invention provide for a core particle that is coated with any desired antigen in a highly ordered and repetitive fashion as the result of specific interactions.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 01/00741

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/385 A61P37/00 //C12N15/33,C12N15/51,C12N15/31,
C12N15/30,C12N15/62,C07K14/245,C07K14/02,C07K19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 578 293 A (AKZO NV) 12 January 1994 (1994-01-12) page 3, line 35 - line 58	1-5, 11-15, 45-60, 79,80, 83-85
A	BACHMANN M F ET AL: "The influence of virus structure on antibody responses and virus serotype formation" IMMUNOLOGY TODAY, vol. 17, no. 12, 1 December 1996 (1996-12-01), pages 553-558, XP004071007 --- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *X* document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *Z* document member of the same patent family

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International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	<p>WO 00 32227 A (CYTOS BIOTECHNOLOGY AG) 8 June 2000 (2000-06-08)</p> <p>the whole document -----</p>	<p>28-44, 48-56, 61, 62, 78-80, 83-85</p>

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-27, 45-47, 57-60, 63-77, 81,
82 (in totality); 48-56, 61, 62, 78-80,
83-85 (partially)

Compositions comprising a bacterial pili covalently linked to an antigen; methods of making these compositions; methods of immunisation using these compositions.

2. Claims: 28-44 (in totality); 48-56, 61, 62, 78-80,
83-85 (partially)

Compositions comprising a virus-like molecular scaffold; methods of making these compositions; methods of immunisation using these compositions.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 01/00741

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